



12-24-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Becker *et al.*
Serial No.: 10/600,009
Filed: June 18, 2003
Customer No.: 24961
Confirmation No.: Unassigned
For: *GENES AND POLYMORPHISMS ON
CHROMOSOME 10 ASSOCIATED WITH
ALZHEIMER'S DISEASE AND OTHER
NEURODEGENERATIVE DISEASES*
Art Unit: Unassigned
Examiner: Unassigned

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12/22/2003
Date

Michael Lough

TRANSMITTAL LETTER

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

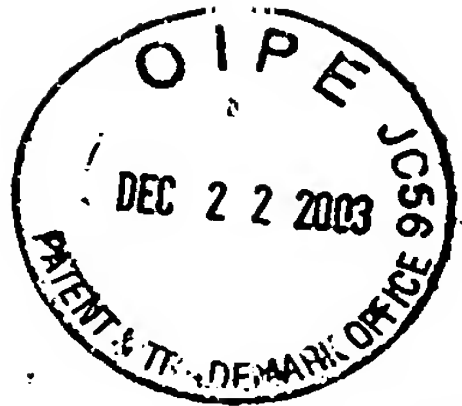
Transmitted herewith are a Supplemental Information Disclosure Statement, and Form PTO-1449 (14 pages) in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a first Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account Number 50-1213, as stated below:

(X)The Commissioner is hereby authorized to charge the fee for the Information Disclosure Statement and any other fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted
HELLER EHRMAN WHITE & McAULIFFE LLP

By:
Stephanie L. Seidman
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE
WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits of the above-captioned application. Thus, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (14 pages) is provided herewith in connection with the above-captioned application. In accordance with 37 C.F.R. §1.98(d), copies of the references marked with an asterisk on the Form PTO-1449 are not provided herewith as they

U.S.S.N. 10/600,009

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Supplemental Information Disclosure Statement

have been previously provided in connection with U.S. Serial No. 10/282,174 patent application which is relied upon for an earlier filing date in accordance with 35 U.S.C. §120.

The documents listed on Form PTO-1449 are all in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

<u>U.S.S.N.</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/814,179	03/22/01	37481-3301
10/342,844	01/13/03	37481-3307
10/282,174	10/25/02	37481-3308
10/281,456	10/25/02	37481-3312
60/448,172	02/14/03	37481-P3322
60/451,958	03/04/03	37481-P3322B
10/292,081	11/08/02	37481-3323
10/608,397	06/26/03	37481-3323B
60/470,884	05/14/03	37481-P3327
60/489,186	07/21/03	37481-P3329

<u>Int'l App. No.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US03/26409	08/20/03	37481-3307CPC
PCT/US02/34679	10/25/02	37481-3308PC
PCT/US03/26173	08/20/03	37481-3316PC

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

U.S.S.N. 10/600,009

BECKER *et al.*

Supplemental Information Disclosure Statement

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

* * *

Respectfully submitted,
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By:


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Registration No. 33,779

Attorney Docket No. 37481-3308B

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FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 37481-3308B	SERIAL NO. 10/600,009	CONFIRM NO. Unassigned
	APPLICANT Becker <i>et al.</i>		CUSTOMER NO. 24961
	FILING DATE 06/18/2003		GROUP Unassigned

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref. No.	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A*	6	1	5	3	3	8	6	11/28/00	Lalouel <i>et al.</i>	435	6	06/29/98
	B*	6	3	4	2	3	5	1	01/29/02	Chen <i>et al.</i>	435	6	03/16/99
	C*	6	3	4	6	3	8	2	02/12/02	Summar <i>et al.</i>	435	6	06/01/99
	D*	6	3	4	6	3	8	5	02/12/02	Eguchi <i>et al.</i>	435	6	12/06/98
	E*	6	4	3	2	6	4	8	08/13/02	Blumefeld <i>et al.</i>	435	6	08/16/00
	F*	6	4	4	4	4	2	7	9/03/02	Ludwig <i>et al.</i>	435	6	07/11/00

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref. No.	DOCUMENT NUMBER							DATE	COUNTRY	Translation Yes No	
	G*	0	2	0	2	8	2	0	01/10/02	PCT		
	H*	0	3	0	5	1	1	74	06/26/03	PCT A2		
	I*	0	3	0	5	4	1	43	07/03/03	PCT A2		
	J*	9	8	4	7	9	1	7	09/18/98	PCT A2/A3		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

K*	Abraham <i>et al.</i> , "Insulin degrading enzyme is not associated with late-onset Alzheimer's disease," <i>Am. J. Hum. Genet.</i> <u>59</u> : S562, Program No. 2236 (2001), [also available online at www.faseb.org/cgi-bin/ashg01 , accessed on 07/01/03]
L*	Ait-Ghezala <i>et al.</i> , "Confirmation of association between D10S583 and Alzheimer's disease in a case-control sample," <i>Neuroscience Letters</i> <u>325</u> : 87-90 (2002)

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Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M*	American College of Medical Genetics/American Society of Human Genetics (ACMG/ASHG) Working Group on ApoE and Alzheimer Disease, "Statement on use of apolipoprotein E testing for Alzheimer disease. American College of Medical Genetics/American Society of Human Genetics Working Group on ApoE and Alzheimer disease" <i>JAMA</i> <u>274</u> (20):1627-1629 (1995)
N*	American Type Culture Collection, ATCC Number: CRL-9096
O*	Bales <i>et al.</i> , "Lack of apolipoprotein E dramatically reduces amyloid β -peptide deposition", <i>Nature Genetics</i> <u>17</u> :263-264 (1997)
P*	Bergen <i>et al.</i> , "The Role of Heredity in Late-Onset Alzheimer Disease and Vascular Dementia", <i>Arch Gen Psychiatry</i> <u>54</u> :264-270 (1997)
Q*	Bertram <i>et al.</i> , "Further Assessment of Novel Alzheimer's Disease Loci on Chromosomes 10 and 9," <i>Neurobiology of Aging</i> <u>23</u> : S324, abstract no. 1206 (2002)
R*	Bertram <i>et al.</i> , "Genetic Analyses of Novel Alzheimer's Disease Loci on Chromosomes 10 and 9," <i>Society for Neuroscience Abstracts</i> <u>Vol. 28</u> , Program No. 420.5 (2002)
S*	Bertram, Lars, "Candidate Genes Showing No Association with Alzheimer's Disease - Results of the NIMH Genetics Initiative," Slides (25) from the presentation at <i>The 2000 World Alzheimer's Congress</i> Washington D.C., July 2000
T*	Bertram, Lars, "Conclusion: Candidate Gene Assessment," Slides (2) from the presentation at <i>The 2000 World Alzheimer's Congress</i> Washington, D.C., July 2000
U*	Bertram, Lars, "Further Characterization of the Alzheimer's Disease Locus on Chromosome 10," Slides (15) from the platform presentation at <i>The 2001 Society for Neuroscience Annual Meeting</i> November 11, 2001
V*	Bertram, Lars, "Genetic Analyses of Novel Alzheimer's Disease Loci on Chromosome 10 and 9," Slides (19) from the platform presentation at <i>The 2002 Society for Neuroscience Annual Meeting</i> November 5, 2002
W*	Bertram, Lars <i>et al.</i> , "Further Assessment of a Novel Alzheimer's Disease Loci on Chromosome 10 and 9," Poster presented at <i>The 2002 International Conference on Alzheimer's Disease and Related Disorders</i> Stockholm, July 2002
X*	Bertram <i>et al.</i> , "Further Characterization of the Alzheimer's Disease Locus on Chromosome 10," <i>Soc. Neurosci. Abstr.</i> <u>Volume 27</u> , Program No. 127.3 (2001)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Y*	Bishop, <i>et al.</i> , "The Power of Identity-by-State Methods for Linkage Analysis", <i>Am. J. Hum. Genet.</i> <u>46</u> :254-265 (1990)
	Z*	Blacker, Deborah, "Association Strategies in Alzheimer's Disease: Findings from the NIMH Genetics Initiative," Slides (17) from the presentation at <i>The 2000 World Alzheimer's Congress</i> Washington, D.C., July 2000
	AA*	Blacker <i>et al.</i> , "ApoE-4 and age at onset of Alzheimer's disease: The NIMH Genetics Initiative", <i>Neurology</i> <u>48</u> :139-147 (1997)
	AB*	Blacker <i>et al.</i> , "Results of a high resolution genome screen in 443 Alzheimer's disease families: the NIMH Genetics Initiative," <i>Am. J. Hum. Genet.</i> <u>69</u> : S498, Program No. 1851 (2001) [also available online at www.faseb.org/cgi-bin/ashg01 , accessed on 07/01/03]
	AC*	Blacker <i>et al.</i> , "The Genetics of Alzheimer Disease", <i>Arch Neurol</i> <u>55</u> :294-296 (1998)
	AD*	Boehnke <i>et al.</i> , "Genetic Association Mapping Based on Discordant Sib Pairs: The Discordant-Alleles Test", <i>Am. J. Hum. Genet.</i> <u>62</u> :950-961 (1998)
	AE*	Breitner <i>et al.</i> , "Familial aggregation in Alzheimer's disease: Comparison of risk among relatives of early- and late-onset cases, and among male and female relatives in successive generations", <i>Neurology</i> <u>38</u> :207-212 (1988)
	AF*	Bullido <i>et al.</i> , "A polymorphism in the regulatory region of APOE associated with risk for Alzheimer's dementia", <i>Nature Genetics</i> <u>18</u> :69-71 (1998)
	AG*	Chung <i>et al.</i> , "Lack of Association of Trinucleotide Repeat Polymorphisms in the Very-Low-Density Lipoprotein Receptor Gene with Alzheimer's Disease", <i>Ann. Neurology</i> <u>39</u> (6):800-803 (1996)
	AH*	Clark, R.F. <i>et al.</i> , Alzheimer's Disease Collaborative Group, "The structure of the presenilin 1 (S182) gene and identification of six novel mutations in early onset AD families", Alzheimer's Disease Collaborative Group, <i>Nat Genet.</i> <u>11</u> (2):219-222 (1995)
	AI*	Clatworthy <i>et al.</i> , "Lack of Association of a Polymorphism in the Low-density Lipoprotein Receptor-Related Protein Gene With Alzheimer Disease", <i>Arch Neurol</i> <u>54</u> :1289-1292 (1997)
	AJ*	Clerget-Darpoux <i>et al.</i> , "Effects of Misspecifying Genetic Parameters in Lod Score Analysis", <i>Biometrics</i> <u>42</u> :393-399 (1986)
	AK*	Cook <i>et al.</i> , "Twins With Alzheimer's Disease", <i>Arch Neurol</i> <u>38</u> :3001-301 (1981)

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AL*	Corder <i>et al.</i> , "Apolipoprotein E, survival in Alzheimer's disease patients, and the competing risks of death and Alzheimer's disease", <i>Neurology</i> <u>45</u> :1323-1328 (1995)
AM*	Creasey <i>et al.</i> , "Monozygotic twins discordant for Alzheimer's disease", <i>Neurology</i> <u>39</u> :1474-1476 (1989)
AN*	Cruts <i>et al.</i> , "Estimation of the genetic contribution of presenilin-1 and -2 mutations in a population-based study of presenile Alzheimer disease", <i>Hum Mol Genetics</i> <u>7</u> (1):43-51 (1998)
AO*	Cruts <i>et al.</i> , "The presenilin genes: a new gene family involved in Alzheimer disease pathology", <i>Hum Mol Genetics</i> <u>5</u> :1449-1455 (1996)
AP*	Du <i>et al.</i> , " α_2 -Macroglobulin as a β -Amyloid Peptide-Binding Plasma Protein", <i>J. Neurochemistry</i> <u>69</u> (1):299-305 (1997)
AQ*	Du <i>et al.</i> , " α_2 -Macroglobulin Attenuates β -Amyloid Peptide 1-40 Fibril Formation and Associated Neurotoxicity of Cultured Fetal Rat Cortical Neurons", <i>J. Neurochemistry</i> <u>70</u> (3):1182-1188 (1998)
AR*	Elston <i>et al.</i> , "Two-Stage Global Search Designs for Linkage Analysis Using Pairs of Affected Relatives", <i>Genetic Epidemiology</i> <u>13</u> :535-558 (1996)
AS*	Elston, R.C., "Designs for the Global Search of the Human Genome by Linkage Analysis", Proceedings of the XVIth International Biometric Conference, Hamilton, New Zealand, pp. 39-51 (1992)
AT*	Ertekin-Taner <i>et al.</i> , "Analysis of Urokinase-Type Plasminogen Activator as a Late-Onset Alzheimer's Disease Candidate Gene Linked To Chromosome 10," <i>51st Annual Meeting of the American Society of Human Genetics</i> San Diego, California, USA (October 2001)
AU*	Ertekin-Taner <i>et al.</i> , "Significant Association of Haplotype Blocks in the Urokinase Type Plasminogen Activator Gene on Chromosome 10 with A β 42 and Late Onset Alzheimer's Disease," from the 52nd Annual Meeting of the American Society of Human Genetics Baltimore, Maryland USA October 15-19, 2002. Published in <i>American Journal of Human Genetics</i> <u>71</u> (4 Supplement): 458 October, 2002
AV*	Ertekin-Taner <i>et al.</i> , "Urokinase-type plasminogen activator haplotypes are significantly associated with a β 42 and late onset Alzheimer's disease," <i>Presentations at Neuroscience Symposium "The Latest Links: Genes and Alzheimer's Disease."</i> National Institute of Aging Neuroscience and Neuropsychology of Aging in connection with <i>The 2001 Society for Neuroscience Annual Meeting</i> November 10, 2001 San Diego, CA

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AW*	Ertekin-Taner <i>et al.</i> , "Variance components linkage analysis of plasma amyloid β protein in typical late-onset Alzheimer's disease (LOAD) pedigrees," <i>Am. J. Hum. Genet.</i> <u>69</u> : S531, Program No. 2048 (2000) [also available online at www.faseb.org/cgi-bin/ashg01 , accessed on 07/01/03]
	AX*	Estus <i>et al.</i> , "Urokinase-type Plasminogen Activator, Amyloid-beta, and Alzheimers Disease," <i>Presentations at Neuroscience Symposium "The Latest Links: Genes and Alzheimer's Disease."</i> National Institute of Aging Neuroscience and Neuropsychology of Aging in connection with <i>The 2001 Society for Neuroscience Annual Meeting</i> November 10, 2001 San Diego, CA
	AY*	Evans <i>et al.</i> , "Apolipoprotein E ϵ 4 and Incidence of Alzheimer Disease in a Community Population of Older Persons", <i>JAMA</i> <u>277</u> (10):822-824 (1997)
	AZ*	Evans <i>et al.</i> , "Prevalence of Alzheimer's Disease in a Community Population of Older Persons", <i>JAMA</i> <u>262</u> (18):2551-2556 (1989)
	BA*	Farrer <i>et al.</i> , "Assessment of Genetic Risk for Alzheimer's Disease Among First-Degree Relatives", <i>Ann. Neurology</i> <u>25</u> (5):485-493 (1989)
	BB*	Farrer <i>et al.</i> , "Transmission and age-at-onset patterns in familial Alzheimer's disease: Evidence for heterogeneity", <i>Neurology</i> <u>40</u> :395-403 (1990)
	BC*	Feingold <i>et al.</i> , "Strategies for Mapping Heterogeneous Recessive Traits by Allele-Sharing Methods", <i>Am. J. Genet.</i> <u>60</u> :965-978 (1997)
	BD*	Feuk <i>et al.</i> , "Multiple Genes Maybe Involved in Explaining the Linkage Peak on Chromosome 10: Evidence From SNP-Based Association Studies," <i>Neurobiology of Aging</i> <u>23</u> : S424-S425 (2002)
	BE*	Games <i>et al.</i> , "Alzheimer-type neuropathology in transgenic mice over expressing V717F β -amyloid precursor protein", <i>Nature</i> <u>373</u> :523-527 (1995)
	BF*	Go <i>et al.</i> , "Development and Validation of a Structured Telephone Interview for Dementia Assessment (STIDA): The NIMH Genetics Initiative", <i>J. Geriatr. Psychiatry Neurol</i> <u>10</u> :161-167 (1997)
	BG*	Goldin <i>et al.</i> , "Improvement of the Power to Detect Complex Disease Genes by Regional Inference Procedures", <i>Genetic Epidemiology</i> <u>14</u> :785-789 (1997)
	BH*	Gómez-Isla <i>et al.</i> , "A Novel Presenilin-1 Mutation: Increased β -Amyloid and Neurofibrillary Changes", <i>Ann. Neurol</i> <u>41</u> :809-813 (1997)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BI*	Goudsmit <i>et al.</i> , "Familial Alzheimer's Disease in Two Kindreds of the Same Geographic and Ethnic Origin", <i>J Neurology Sciences</i> <u>49</u> :79-89 (1981)
BJ*	Greenberg <i>et al.</i> , "Affecteds-Only Linkage Methods Are Not a Panacea", <i>Am. J. Hum. Genet.</i> <u>58</u> :892-895 (1996)
BK*	Growdon <i>et al.</i> , NIH Grant 5P50AG005134-20 "Massachusetts Alzheimer's Disease Research Center," funding period 04/01/1999-03/21/2004
BL*	Hardy, J., "Amyloid, the presenilins and Alzheimer's disease", <i>20</i> :154-159 (1997)
BM*	Haseman <i>et al.</i> , "The Investigation of Linkage Between a Quantitative Trait and a Marker Locus", <i>Behavior Genetics</i> <u>2</u> (1):3-19(1972)
BN*	Hauser <i>et al.</i> , "Affected-Sib-Pair Interval Mapping and Exclusion for Complex Genetic Traits: Sampling Considerations", <i>Genetic Epidemiology</i> <u>13</u> :117-137 (1996)
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Titl : Genes and Polymorphisms on Chromosom 10 Associat d with Alzh im r's Dis ase and Oth r Neurod generative Diseases

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CY*	Montoya <i>et al.</i> , "Bleomycin hydrolase is associated with risk of sporadic Alzheimer's disease", <i>Nature Genetics</i> <u>18</u> :211-212 (1998)
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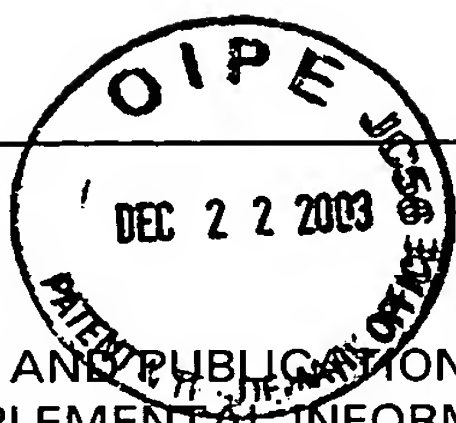
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FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 37481-3308B	SERIAL NO. 10/600,009	CONFIRM NO. Unassigned
	APPLICANT Becker <i>et al.</i>	CUSTOMER NO. 24961	
	FILING DATE 06/18/2003	GROUP Unassigned	

* If an asterisk is placed beside the reference number, a copy is NOT provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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